The Southern Gamma-ray Survey Observatory



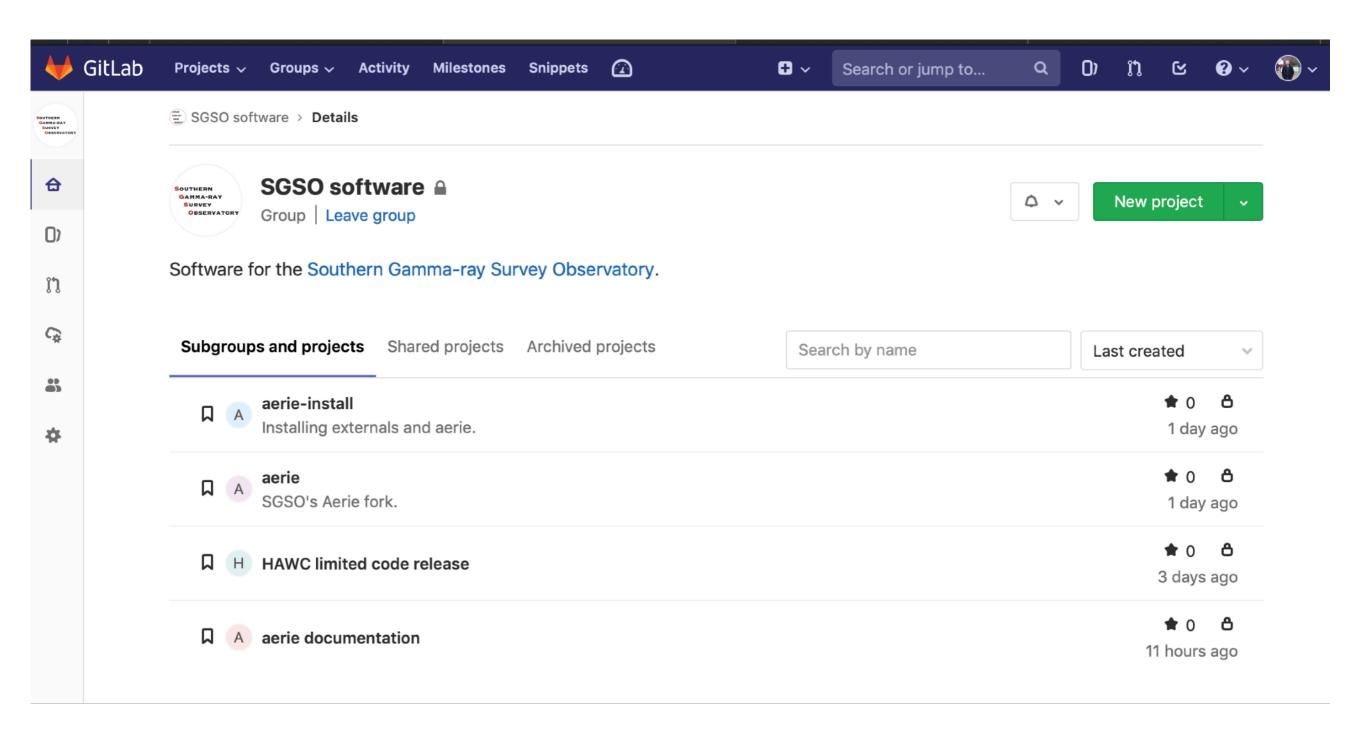
simulation workshop



~Harm Schoorlemmer



The HAWC software...



https://gitlab.com/sgso-alliance

The HAWC software installation...

install.sh

GUI commands, commented out for now.

5 hours ac

README.md

https://gitlab.com/sgso-alliance/aerie-install

Aerie install procedure

Pre-requisite

We need to clean up the install procedure and make it more cross platform. The present procedure should work on Linux with a gcc version recent enough to support C++11. Recommended are gcc 7 and newer. Recent versions of clang (XCode on the mac) also work.

Installation

Here is an all-in-one script which:

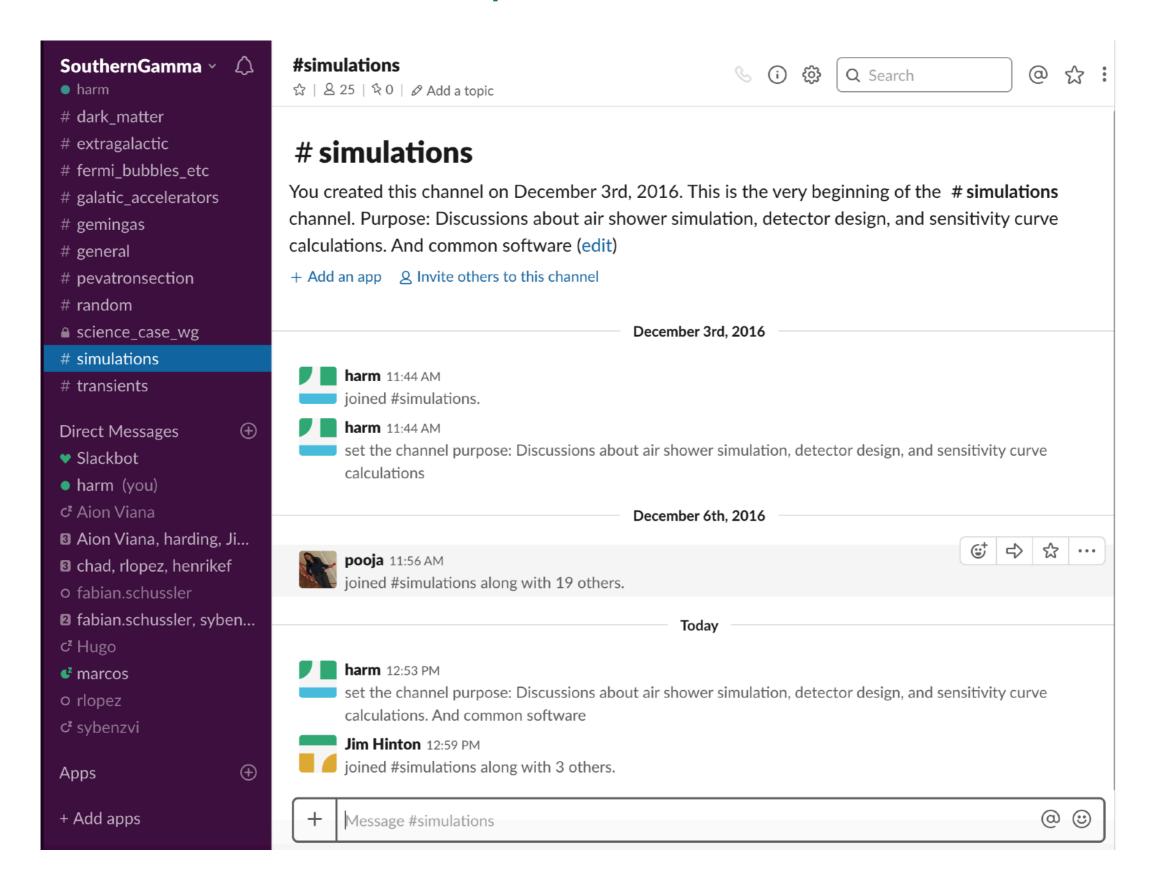
- sets up a Conda environment with Python 2.7
- installs externals required for Aerie with APE, including Geant4 (for HAWCSim)
- installs Aerie
- runs the tests

I moved the packages to be downloaded to a password-free location, but APE asks a password anyway. Just type return, that will work, we'll fix this later.

Note that during the install process, you have to hit return about 2 minutes after starting. Then if all goes well it will keep running for about 90 minutes without any required intervention.

All will be installed within a single directory, <a href="https://two.new.ori.nlm.new.ori.

Lets use Slack to ask questions



What do we want to get out off the workshop

- A function framework for software development
 - Usage of git
 - Installation procedure
 - Python support?
- Examples on which we can build-upon
- Division of labor
- Expanding functionality of the software framework to support SGSO
 - New unit designs
 - Fix hard coded HAWC specific parts